

## SEQUENCE LISTING

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Ruben, Steven M.

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<141> 1999-06-03

<150> 60/088,320

<151> 1998-06-05

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<170> PatentIn Ver. 2.0

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Pro Cys Ser Thr Ser Cys Gly Leu Gly Val Ser Thr Arg Ile Ser Asn
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<213> Homo sapiens

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Cys Asp Glu Ser Ser Gly Leu Tyr Cys Asp Arg Ser Ala Asp Pro Ser  
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Asn Gln Thr Gly Ile Cys Thr Ala Val Glu Gly Asp Asn Cys Val Phe  
100 105 110

Asp Gly Val Ile Tyr Arg Ser Gly Glu Lys Phe Gln Pro Ser Cys Lys  
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Phe Gln Cys Thr Cys Arg Asp Gly Gln Ile Gly Cys Val Pro Arg Cys  
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Gln Leu Asp Val Leu Leu Pro Glu Pro Asn Cys Pro Ala Pro Arg Lys  
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Val Glu Val Pro Gly Glu Cys Cys Glu Lys Trp Ile Cys Gly Pro Asp  
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Thr Arg Leu Cys Met Val Arg Pro Cys Glu Gln Glu Pro Glu Gln Pro  
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<220>

<221> misc\_feature

<222> (494)

<223> n equals a, t, g or c

<220>

<221> misc\_feature

<222> (502)

<223> n equals a, t, g or c

<400> 8

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ggcanagt tttttttcca ttatat tttat tttctta ttttattgaa tcaggccaca 60
ccattgcagg gaaattctga cttagaaaga gcttcattac attggatcca aatttccttc 120
tccatggctt caacccatgg gtctgagact tgccctccgg ntctgcata agatagttcc 180
gtttctcaaa accaatggcg actgggttat tctgaccacc ttctccacc cattgccaga 240
ataatcccta gtttctccaa ccagacttcc tatgatcttt gaaagctaag ttcatttccc 300
aattgagatg caattccagt aagaaccaag ccttgggggtt nccanggatt tcaatgggnt 360
gngcgttnc cagcntgnaa ttgnaaagg caggggtttt caccgccgga aaaccaaag 420
ggttccaccg gcttnacgag gggccntcca gggggaatnc ctttaanaag atctggaagg 480
gancccantt ngtnaaaaa gncttctgga aaaaagcctt gcaggctaaa aatgggggg 539

```

<210> 9

<211> 311  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (177)  
 <223> n equals a, t, g or c

<220>  
 <221> misc\_feature  
 <222> (189)  
 <223> n equals a, t, g or c

<400> 9  
 attgaatggt gtgtagttat tcacagggaa ttctgtgcag tgtgcagaga gattcctaaa 60  
 cgggaaaagg actgggaata catcctcctt actgtgacct ccccaaaacc tagtccagtg 120  
 caaggtatac agtgggtgctc attaaatact tgatgaatac aggaagctgt gcatgtnttc 180  
 ctacttttnt tcgaagctct cttcttccaa agctacatga aaatagaatt ttaacagtca 240  
 aaattttata ttaagtgcct tagcaaaaga gacatttaat attttcaaag aaatgcatat 300  
 gtatgtatac a 311

<210> 10  
 <211> 197  
 <212> DNA  
 <213> Homo sapiens

<400> 10  
 ctcttctgta agtcagtgtg aatcatgtta gattttctga gagtgaaaac acctgccatc 60  
 tacaaattac aaggctggat aacagctcac tccatttgaa attcagtgga aaccaagag 120  
 ctaggttctt actggaattt gcatctcaat ttgggaaact gaacttagct ttcaaagatc 180  
 ataggaagtc ttgttgg 197

<210> 11  
 <211> 484  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (39)  
 <223> n equals a, t, g or c

<220>  
 <221> misc\_feature  
 <222> (75)  
 <223> n equals a, t, g or c

<220>  
 <221> misc\_feature  
 <222> (88)  
 <223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (104)  
<223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (111)  
<223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (145)  
<223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (165)  
<223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (170)  
<223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (229)  
<223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (239)  
<223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (239)  
<223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (328)  
<223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (337)  
<223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (356)  
<223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (377)  
<223> n equals a, t, g or c

<220>  
<221> misc\_feature  
<222> (379)

<223> n equals a, t, g or c

<220>

<221> misc\_feature

<222> (392)

<223> n equals a, t, g or c

<220>

<221> misc\_feature

<222> (397)

<223> n equals a, t, g or c

<220>

<221> misc\_feature

<222> (418)

<223> n equals a, t, g or c

<220>

<221> misc\_feature

<222> (424)

<223> n equals a, t, g or c

<220>

<221> misc\_feature

<222> (476)

<223> n equals a, t, g or c

<400> 11

ggcagagtgt atacatatat ttgtgtatgc gtatgaagna attcttgtat aaagagaatt 60

cactccatga atganctctt ctgtagtnna gtgtgaatca tgnagattt netaagagtg 120

aaaaacacct gccatctaca aattnacaag gctggataac agctncactn ccatttgaaa 180

attcagtggg aaacccaaga gctaggttct tactggaatt tgccatctnc aatttgggna 240

aactgaaact taggctttcc aaaggttcat aggggaagtct ggggttgagg aaactagggg 300

attattcctg ggcaatgggg tgggaggnag gtgggtncag aattaacccc gttcgnctt 360

tggttttgag gaacggnant atcttatggc gngccnngg gaagttcttc ggaccctngg 420

gttnnaggcc tgggggaggg aattttgggt cccatgtatg aggtctttct aggtcnggat 480

ttcc

484

<210> 12

<211> 236

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (38)

<223> n equals a, t, g or c

<220>

<221> misc\_feature

<222> (182)

<223> n equals a, t, g or c

<220>



<221> misc\_feature  
 <222> (216)  
 <223> n equals a, t, g or c

<220>  
 <221> misc\_feature  
 <222> (220)  
 <223> n equals a, t, g or c

<220>  
 <221> misc\_feature  
 <222> (228)  
 <223> n equals a, t, g or c

<400> 12  
 ggacacagcgc tcagcagctt ggggacaact gcacggangc tgccatctgt gacccccacc 60  
 ggccgctgct actgtgacta catcggggac ccacgaggtg cgcaataggg agtgtgtgca 120  
 caggtgggtcg gtgtgggctg cgtcctggga tgggggtgag tacaacaacg gaccagtcct 180  
 tnccagccta aactggcaat gacaactgcc acgtgncatn cggacgggna cgggtgg 236

<210> 13  
 <211> 32  
 <212> DNA  
 <213> Homo sapiens

<400> 13  
 cgcgatccg cgatggactt tacccagct cc 32

<210> 14  
 <211> 39  
 <212> DNA  
 <213> Homo sapiens

<400> 14  
 ctagtctaga ctagggtggc aatttctgag aagtcaggg 39

<210> 15  
 <211> 30  
 <212> DNA  
 <213> Homo sapiens

<400> 15  
 cgcgatccg cgcgacttta cccagctcc 30

<210> 16  
 <211> 39  
 <212> DNA  
 <213> Homo sapiens

<400> 16  
 ctagggtacc ctagggtggc aatttctgag aagtcaggg 39

<210> 17  
 <211> 733  
 <212> DNA

<213> Homo sapiens

<400> 17

```

gggatccgga gcccaaattct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60
aattcgaggg tgcaccgtca gtcttctctt tcccccaaa acccaaggac accctcatga 120
tctccccgac tcttgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg 180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
aggagcagta caacagcacg tacctgtgtg tcagcgtcct caccgtcctg caccaggact 300
ggctgaatgg caaggagtac aagtgaagg tctccaaca agcctccca acccccatcg 360
agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catccccgga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagAAC aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ctttcttct ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggtctctg 660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
gactctagag gat 733

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<210> 18

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any amino acid

<400> 18

```

Trp Ser Xaa Trp Ser
  1             5

```

<210> 19

<211> 86

<212> DNA

<213> Homo sapiens

<400> 19

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gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaatat ctgccatctc aattag 86

```

<210> 20

<211> 27

<212> DNA

<213> Homo sapiens

<400> 20

```

gcggcaagct ttttgcaaag cctaggc 27

```

<210> 21  
 <211> 271  
 <212> DNA  
 <213> Homo sapiens

<400> 21  
 ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60  
 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120  
 gcccctaact ccgcccagtt ccgcccattc tccgcccctat ggctgactaa ttttttttat 180  
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240  
 ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 22  
 <211> 32  
 <212> DNA  
 <213> Homo sapiens

<400> 22  
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 23  
 <211> 31  
 <212> DNA  
 <213> Homo sapiens

<400> 23  
 gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 24  
 <211> 12  
 <212> DNA  
 <213> Homo sapiens

<400> 24  
 ggggactttc cc 12

<210> 25  
 <211> 73  
 <212> DNA  
 <213> Homo sapiens

<400> 25  
 gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60  
 ccattctcaat tag 73

<210> 26  
 <211> 27  
 <212> DNA  
 <213> Homo sapiens

<400> 26

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<210> 27
<211> 256
<212> DNA
<213> Homo sapiens
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```
<400> 27
ctcgcggggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60
caattagtca gcaaccatag tccgcgccct aactccgccc atcccgcccc taactccgcc 120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagctt                                     256
```

[illegible]